

In the Claims

1. (Currently amended) A method for executing a group of commands on a content description structure, the content description structure including a plurality of relationally related nodes, in a computing environment comprising the steps of:

determining a dependency between commands in the group of commands based on the relationally related plurality of nodes, wherein at least one node is a description that defines semantics and syntax for representing a particular feature of content described by the content description structure;

assigning one or more attribute tags to the group of commands, wherein assigning one or more attribute tags comprises if commands in the group of commands are determined to be dependent, assigning a sequential tag to the group of commands and if commands in the group of commands are determined to be independent, assigning a parallel tag to the group of commands;

executing the group of commands according to the one or more attribute tags, wherein executing the group of commands comprises if the group of commands was assigned the sequential tag, executing commands in the group of commands in sequence and if the group of commands was assigned the parallel tag, executing commands in the group of commands in parallel.

2. (Original) The method of claim 1, wherein assigning one or more attribute tags to the group of commands comprises assigning a start time tag to the group of commands.

3. (Original) The method of claim 2, wherein executing the group of commands according to the one or more attribute tags comprises executing the group of commands at the start time.

4. (Original) The method of claim 2, wherein assigning one or more attribute tags to the group of commands comprises assigning a duration time to the group of commands.

5. (Original) The method of claim 4, wherein executing the group of commands according to the one or more attribute tags comprises executing the group of commands

during a time period starting at the start time and lasting until the start time plus the duration time.

6. (Original) The method of claim 1, wherein assigning one or more attribute tags to the group of commands comprises assigning an authority tag to the group of commands.

7. (Original) The method of claim 6, wherein executing the group of commands according to the one or more attribute tags comprises skipping execution of the group of commands if the authority level is low.

8. (Original) The method of claim 6, wherein executing the group of commands according to the one or more attribute tags comprises executing the group of commands if the authority level is high.

9. (Original) The method of claim 1, wherein assigning one or more attribute tags to the group of commands comprises assigning a result tag to a group of commands.

10. (Original) The method of claim 9, further comprising saving a result of the execution of the group of commands in a new file.

11. (Original) The method of claim 10, wherein assigning one or more attribute tags to the group of commands comprises assigning a write tag to a group of commands, wherein the write tag designates the new file.

12. (Original) The method of claim 9, further comprising overwriting an existing file with a result of the execution of the group of commands.

13. (Original) The method of claim 1, wherein executing the group of commands comprises executing adding, editing, and deleting commands on the content description structure.

14. (Currently amended) A system for executing commands in a computing environment comprising:

a content description structure, wherein the content description structure includes a plurality of relationally related nodes and at least one node is a description that defines semantics and syntax for representing a particular feature of content described by the content description structure;

a group of commands, wherein commands in the group of commands have a dependency based on the relationally related nodes;

one or more attribute tags, wherein the one or more attribute tags comprise a sequential tag and parallel tag;

an encoder system comprising logic to encode a group of commands in the one or more groups of commands with the one or more attribute tags, wherein the group of commands is encoded with the sequential tag if the dependency of the group of commands is dependent indicating the group of commands are to be executed in sequence and the group of commands is encoded with the parallel tag if the dependency of the group of commands is independent and indicates the group of commands are to be executed in parallel; and

a decoder system comprising logic to execute the encoded group of commands according to the one or more attribute tags, wherein the group of commands encoded with the sequential tag are executed in sequence and the group of commands encoded with the parallel tag are executed in parallel.

15. (Original) The system of claim 14, wherein the one or more attribute tags comprise a start time tag, wherein the start time tag comprises a start time value.

16. (Original) The system of claim 15, wherein the encoder system encodes the group of commands with the start time tag, wherein the decoder system executes the group of commands at the start time value.

17. (Original) The system of claim 16, wherein the one or more attribute tags comprise a duration tag, wherein the duration tag comprises duration value.

18. (Original) The system of claim 17, wherein the encoder system encodes the group of commands with the duration tag, wherein the decoder system executes the group of commands during a time period defined by the start time value and the start time value plus the duration value.
19. (Original) The system of claim 14, wherein the one or more attribute tags comprise an authority level tag, wherein the authority level tag comprises an authority level value.
20. (Original) The system of claim 19, wherein the encoder system encodes the group of commands with the authority level tag.
21. (Original) The system of claim 20, wherein the decoder system does not execute the group of commands if the authority level value is low.
22. (Original) The system of claim 20, wherein the decoder system executes the group of commands if the authority level is high.
23. (Original) The system of claim 14, wherein the one or more attribute tags comprise a result tag, wherein the result tag comprises a new file value and overwrite value.
24. (Original) The system of claim 23, wherein the encoder system encodes the group of commands with the result tag.
25. (Original) The system of claim 24, wherein the decoder system saves a result of the executed group of commands in a new file if the result tag has the new file value.
26. (Original) The system of claim 25, wherein the new file is a .xml file.
27. (Original) The system of claim 25, wherein the new file is a .xsd file.

28. (Original) The system of claim 24, wherein the decoder system overwrites an existing file with a result of the executed group of commands if the result tag has the overwrite value.

29. (Original) The system of claim 14, wherein the content description structure is a tree structure.

30. (Original) The system of claim 14, wherein the relationally related nodes comprise parent and children nodes.

31. (Original) A schema for synchronizing an execution of a group of commands in a MPEG computing environment comprising:

an execution order attribute, wherein the execution order attribute comprises a sequential tag that indicates commands in the group of commands are to be executed in a sequence and a parallel tag that indicates commands in the group of commands are to be executed in parallel;

an authority level attribute that indicates a priority level for the execution of the group of commands;

a result attribute, wherein the result attribute comprises a new file value that indicates a new file is to be created for a result of the execution of the group of commands and an overwrite value that indicates the result for the execution of the group of commands is to be overwritten over an existing file; and

a write attribute that indicates where the new file result of the execution of the groups of commands is stored.

32. (Currently amended) The schema of claim 31, further comprising an execution validity attribute, wherein the execution validity attribute comprises a start time attribute that indicates a start time for valid execution of the group of commands and a duration time attribute that ~~indication~~ indicates a duration time for valid execution of the group of commands.

33. (New) A system comprising:

a content description structure, wherein the content description structure includes a plurality of relationally related nodes and at least one node is a description that defines semantics and syntax for representing a particular feature of content described by the content description structure;

a group of commands, wherein commands in the group of commands have a dependency based on the relationally related nodes;

one or more attribute tags, wherein the one or more attribute tags comprise a sequential tag and parallel tag; and

an encoder system comprising logic to encode a group of commands in the one or more groups of commands with the one or more attribute tags, wherein the group of commands is encoded with the sequential tag if the dependency of the group of commands is dependent indicating the group of commands are to be executed in sequence and the group of commands is encoded with the parallel tag if the dependency of the group of commands is independent and indicates the group of commands are to be executed in parallel.

34. (New) The system of claim 33, wherein the one or more attribute tags comprise a start time tag, wherein the start time tag comprises a start time value.

35. (New) The system of claim 34, wherein the one or more attribute tags comprise a duration tag, wherein the duration tag comprises a duration value.

36. (New) The system of claim 33, wherein the one or more attribute tags comprise an authority level tag, wherein the authority level tag comprises an authority level value.

37. (New) The system of claim 33, wherein the one or more attribute tags comprise a result tag, wherein the result tag comprises at least one of a new file value and an overwrite value.

38. (New) A system comprising:

a content description structure, wherein the content description structure includes a plurality of relationally related nodes and at least one node is a description that defines semantics and syntax for representing a particular feature of content described by the content description structure;

a group of commands, wherein commands in the group of commands have a dependency based on the relationally related nodes;

one or more attribute tags, wherein the one or more attribute tags comprise a sequential tag and parallel tag; and

a decoder system comprising logic to execute an encoded group of commands according to the one or more attribute tags, wherein a group of commands encoded with the sequential tag are executed in sequence and a group of commands encoded with the parallel tag are executed in parallel.

39. (New) The system of claim 38, wherein the one or more attribute tags comprise a start time tag, and the decoder system executes a group of commands encoded with the start time tag at the start time value.

40. (New) The system of claim 39, wherein the one or more attribute tags comprise a duration tag, wherein the duration tag comprises a duration value, and the decoder system executes a group of commands encoded with the duration tag during a time period defined by the start time value and the start time value plus the duration value.

41. (New) The system of claim 38, wherein the one or more attribute tags comprise an authority level tag, wherein the authority level tag comprises an authority level value, and the decoder system executes a group of commands encoded with the authority level tag according to the authority level value.

42. (New) The system of claim 38, wherein the one or more attribute tags comprise a result tag, wherein the result tag comprises a new file value, and the decoder system saves

a result of executing a group of commands encoded with the result tag in a new file specified by the new file value.

43. (New) The system of claim 38, wherein the one or more attribute tags comprise a result tag, wherein the result tag comprises an overwrite value, and the decoder system overwrites an existing file with a result of executing a group of commands encoded with the result tag.

44. (New) An apparatus comprising:

a content description structure, wherein the content description structure includes a plurality of relationally related nodes and at least one node is a description that defines semantics and syntax for representing a particular feature of content described by the content description structure;

a group of commands, wherein commands in the group of commands have a dependency based on the relationally related nodes;

one or more attribute tags, wherein the one or more attribute tags comprise a sequential tag and parallel tag; and

means for encoding a group of commands in the one or more groups of commands with the one or more attribute tags, wherein the group of commands is encoded with the sequential tag if the dependency of the group of commands is dependent indicating the group of commands are to be executed in sequence and the group of commands is encoded with the parallel tag if the dependency of the group of commands is independent and indicates the group of commands are to be executed in parallel.

45. (New) The apparatus of claim 44 further comprising:

means for decoding the encoded group of commands according to the one or more attribute tags, wherein the group of commands encoded with the sequential tag are executed in sequence and the group of commands encoded with the parallel tag are executed in parallel.

46. (New) An apparatus comprising:

a content description structure, wherein the content description structure includes a plurality of relationally related nodes and at least one node is a description that defines semantics and syntax for representing a particular feature of content described by the content description structure;

a group of commands, wherein commands in the group of commands have a dependency based on the relationally related nodes;

one or more attribute tags, wherein the one or more attribute tags comprise a sequential tag and parallel tag; and

means for decoding an encoded group of commands according to the one or more attribute tags, wherein a group of commands encoded with the sequential tag are executed in sequence and a group of commands encoded with the parallel tag are executed in parallel.